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MICROARRAY BASED ANALYSIS OF RHEUMATOID ARTHRITIS MARKERS

Petchpud et al.

Appl. No.: 10/719,770 Atty Docket: MGENE.016A

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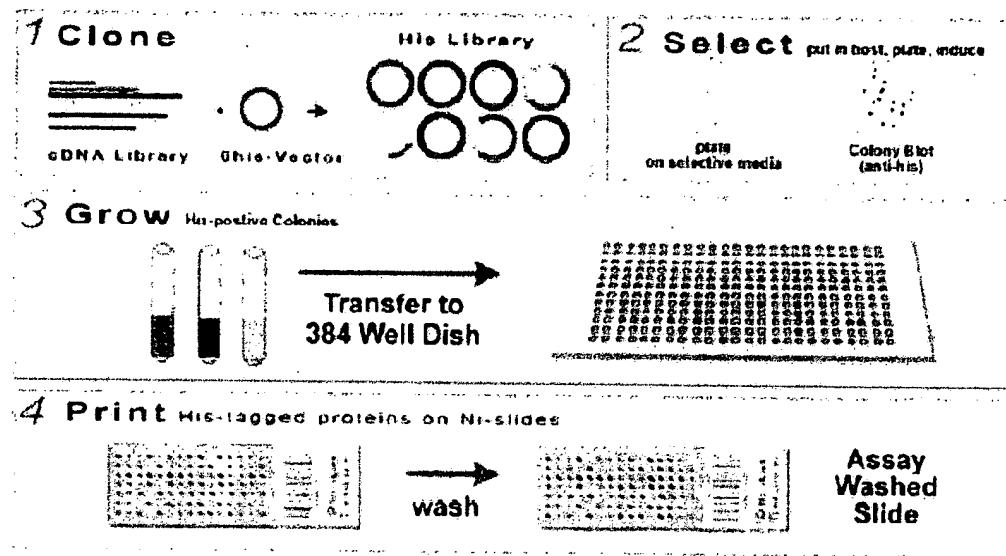


FIG. 1



Nickle Chip with Proteome Library

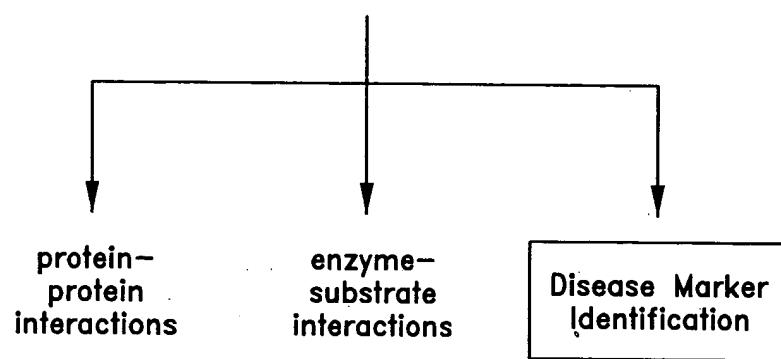


FIG. 3

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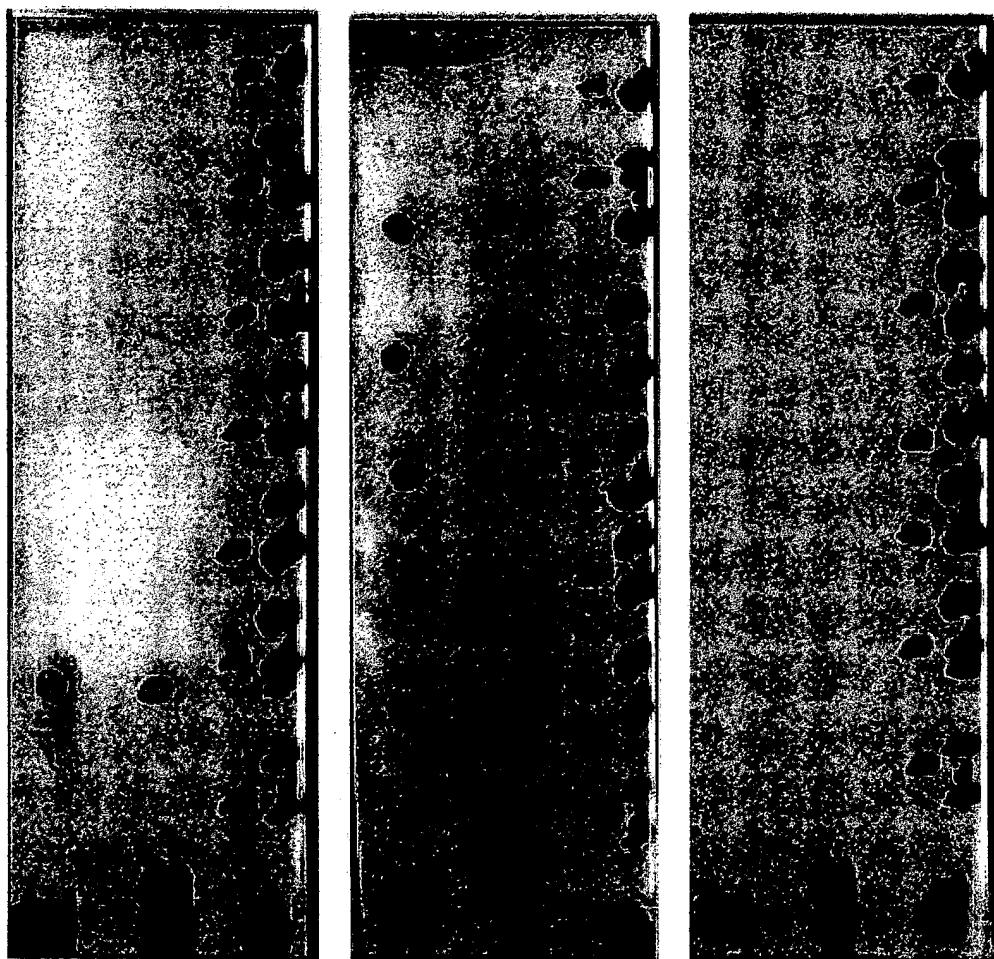


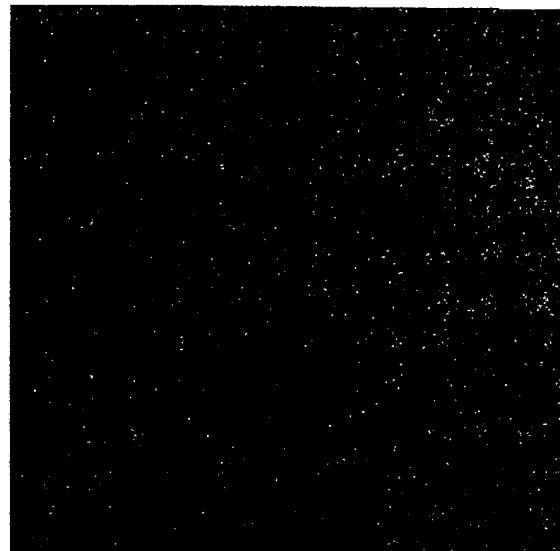
FIG. 2

MICROARRAY BASED ANALYSIS OF RHEUMATOID ARTHRITIS MARKERS

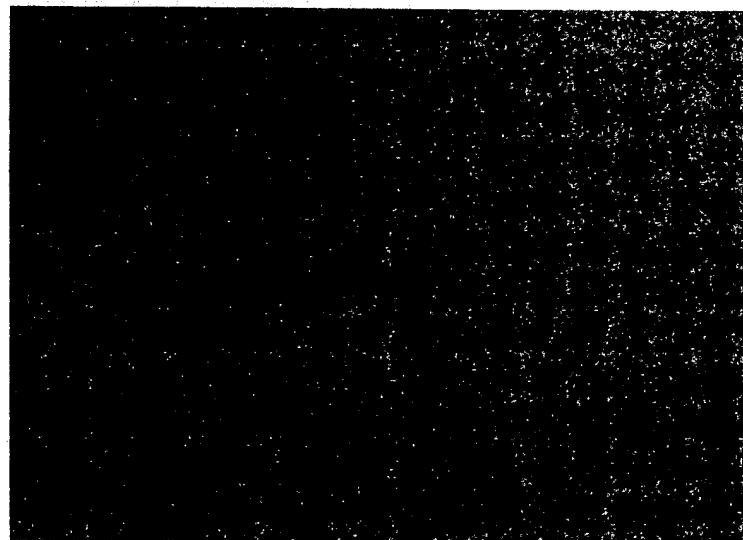
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Control
1:500



Rheumatoid
Arthritis
1:500

FIG. 4

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FIG. 5

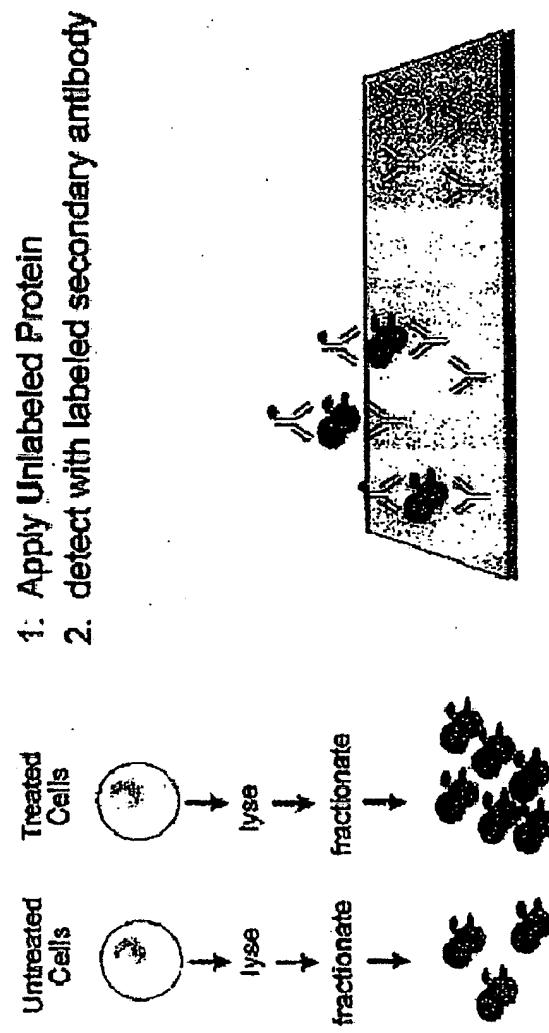


FIG. 6A

MICROARRAY BASED ANALYSIS OF RHEUMATOID ARTHRITIS MARKERS

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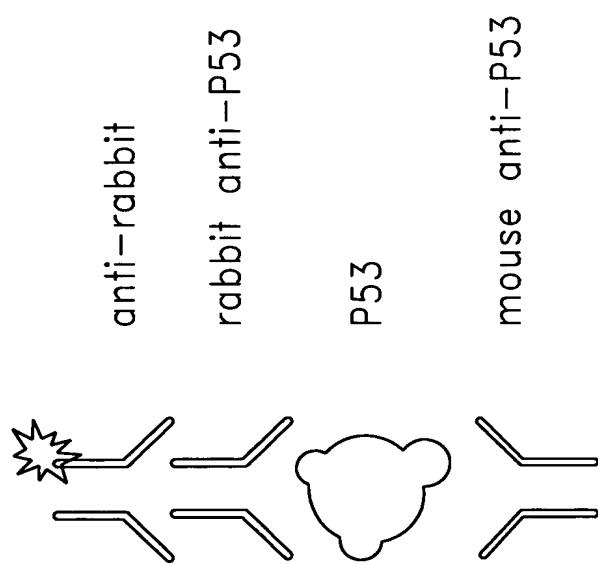


FIG. 6B

MICROARRAY BASED ANALYSIS OF RHEUMATOID ARTHRITIS MARKERS

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Gene - P53 Capture Assay

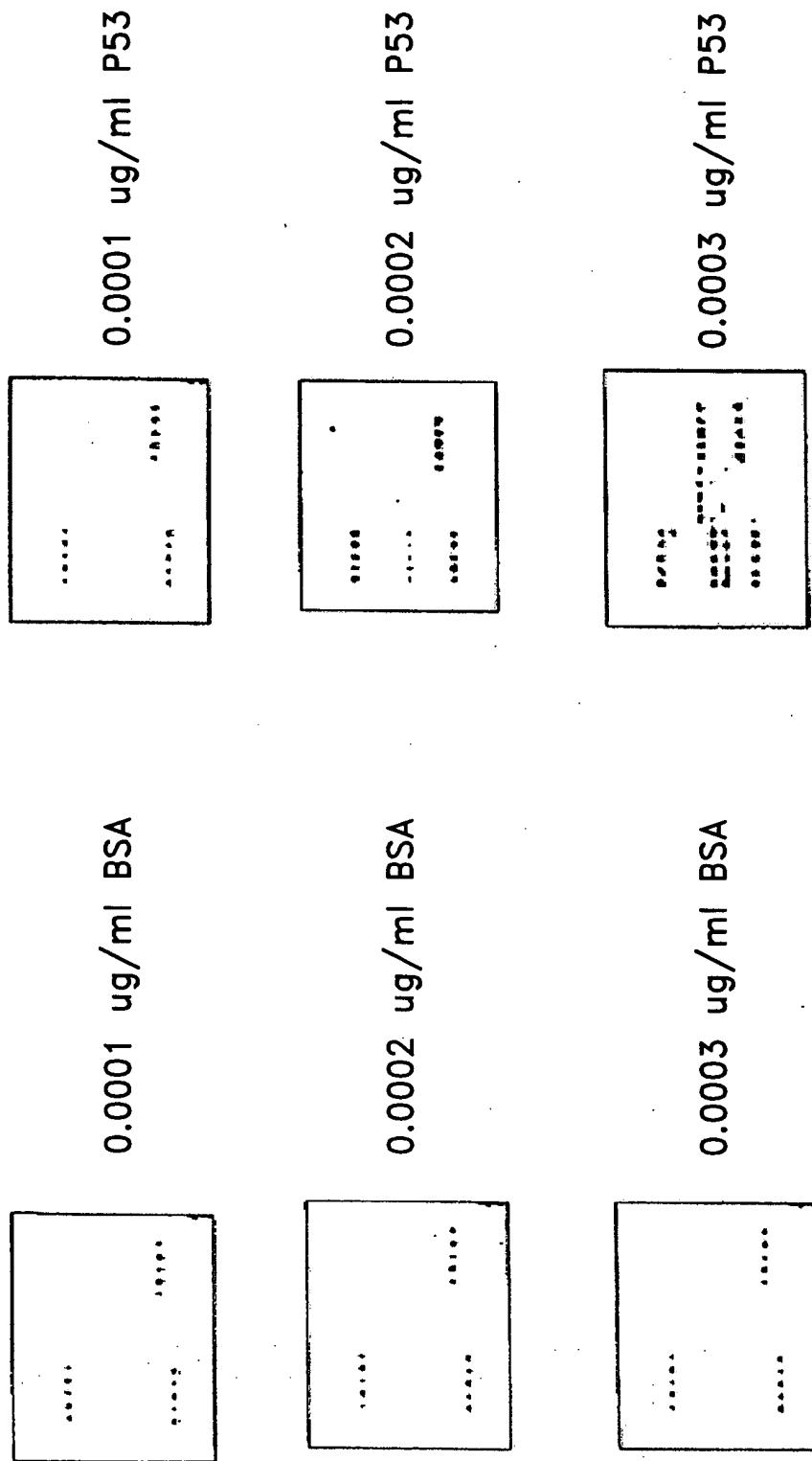
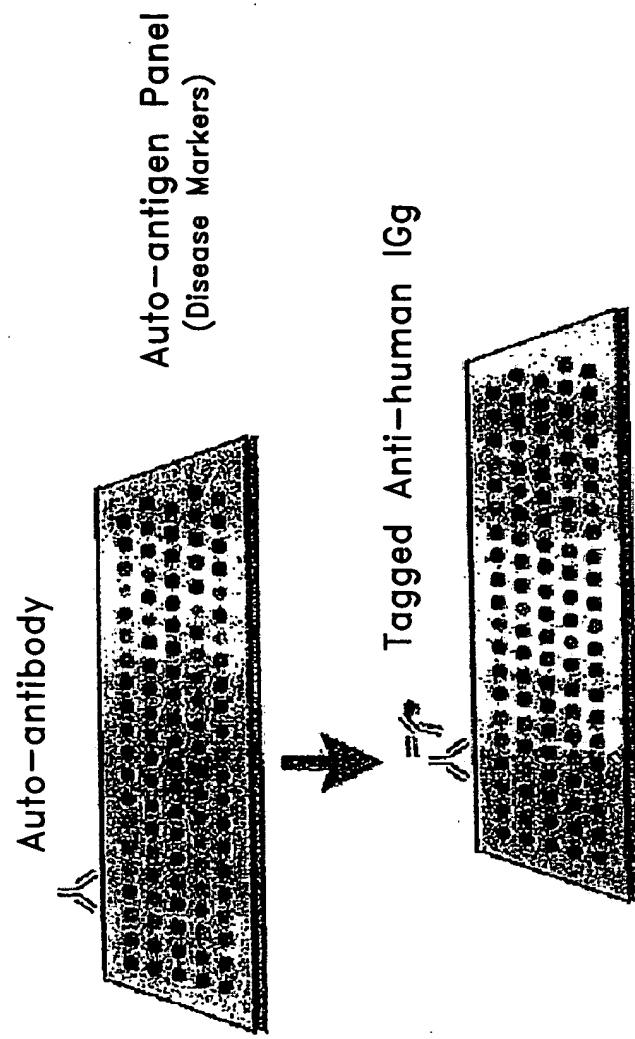


FIG. 6C

FIG. 7A

Example 2:
Western Blot Type Assay



Experiment in Progress: Identify Autoimmune disease specific profiles based on hundreds—thousands of antigens

Autoimmune Disease Assay Antigens

- SSB
- Sm
- Smith
- pANCA
- myeloperoxidase
- neutrophil cytoplasmic antigen
- cANCA
- proteinase 3
- Jo-1
- histidyl tRNA synthetase
- ApoH
- Apolipoprotein H
- Scl-70
- DNA topoisomerase
- Sm/RNP
- Scl-70
- Mitochondrial Antigen
- Plasmid DNA
- proliferating Cell nuclear antigen
- SSA
- Clq
- SRC
- Smith/RNP complex antigen
- Whole Histone
- Histone F2b
- Histone F2a2
- Histone F3 and F2a1
- Histone F1
- Brain fraction 1
- Brain Fraction 16
- Thymus fraction 15
- Thymus fraction 16
- Lymph fraction 6
- Lymph fraction 16
- Spleen fraction 13
- Kidney fraction 15
- Thymus Fraction 16
- Lymph Fraction 6
- Lymph Fraction 16
- Spleen Fraction 13
- Kidney Fraction 15

RA, Kidney cDNA
Library recombinant
proteins

FIG. 7B

MICROARRAY BASED ANALYSIS OF RHEUMATOID ARTHRITIS MARKERS

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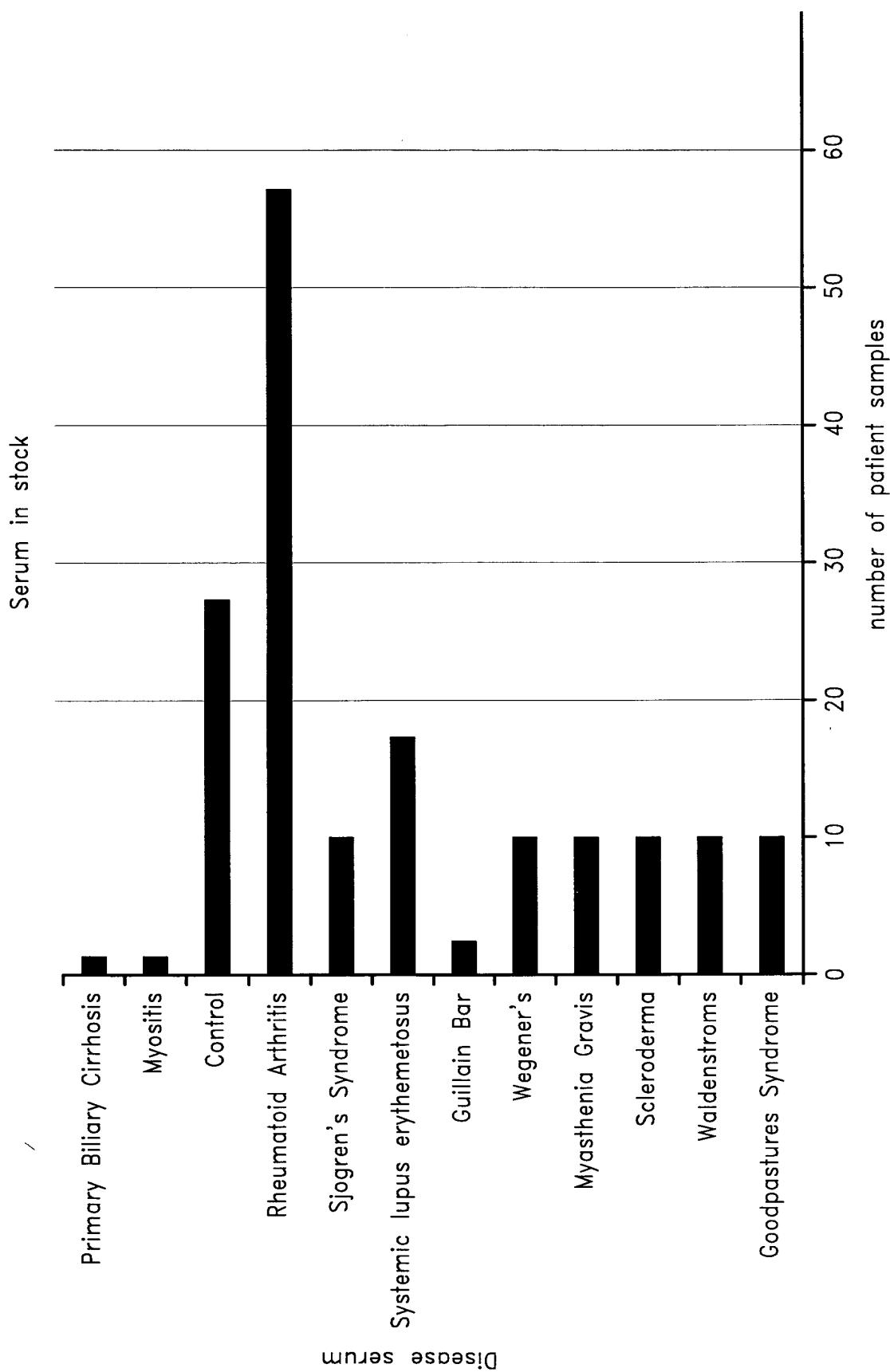


FIG. 7C

MICROARRAY BASED ANALYSIS OF RHEUMATOID ARTHRITIS MARKERS

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Lupus Titration

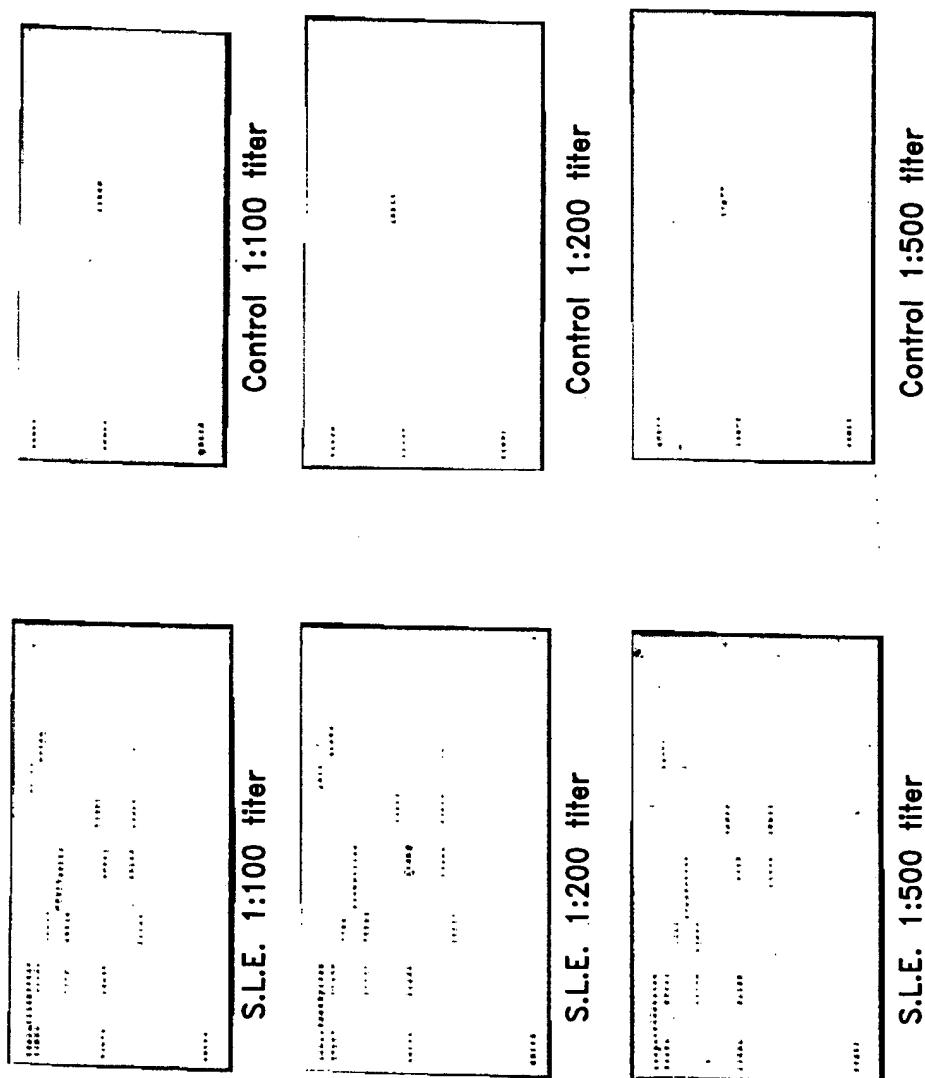


FIG. 7D

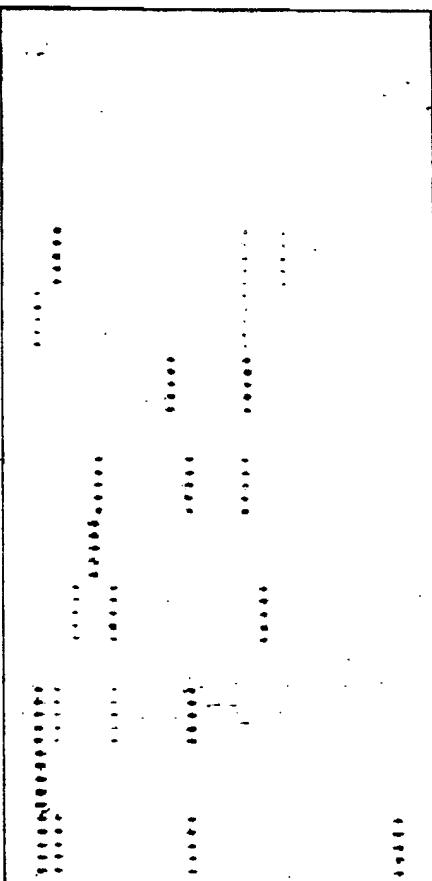
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S.L.E. 1:100 titer with corresponding markers



Control 1:100 titer

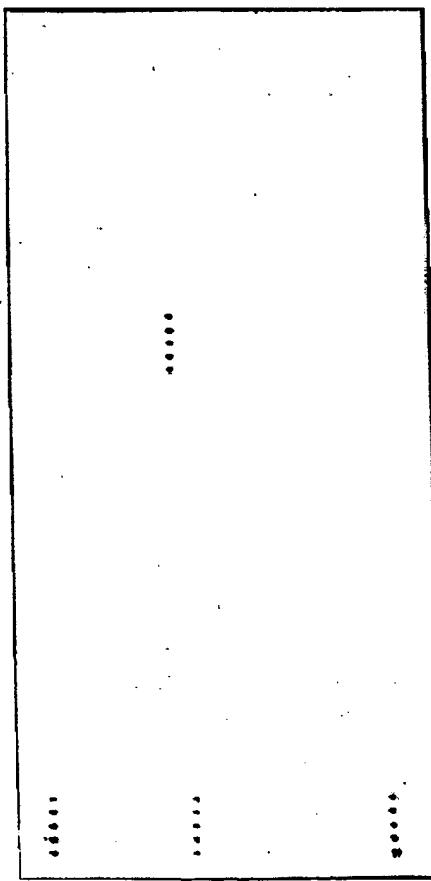


FIG. 7E

MICROARRAY BASED ANALYSIS OF RHEUMATOID ARTHRITIS MARKERS

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Sjogrens titration

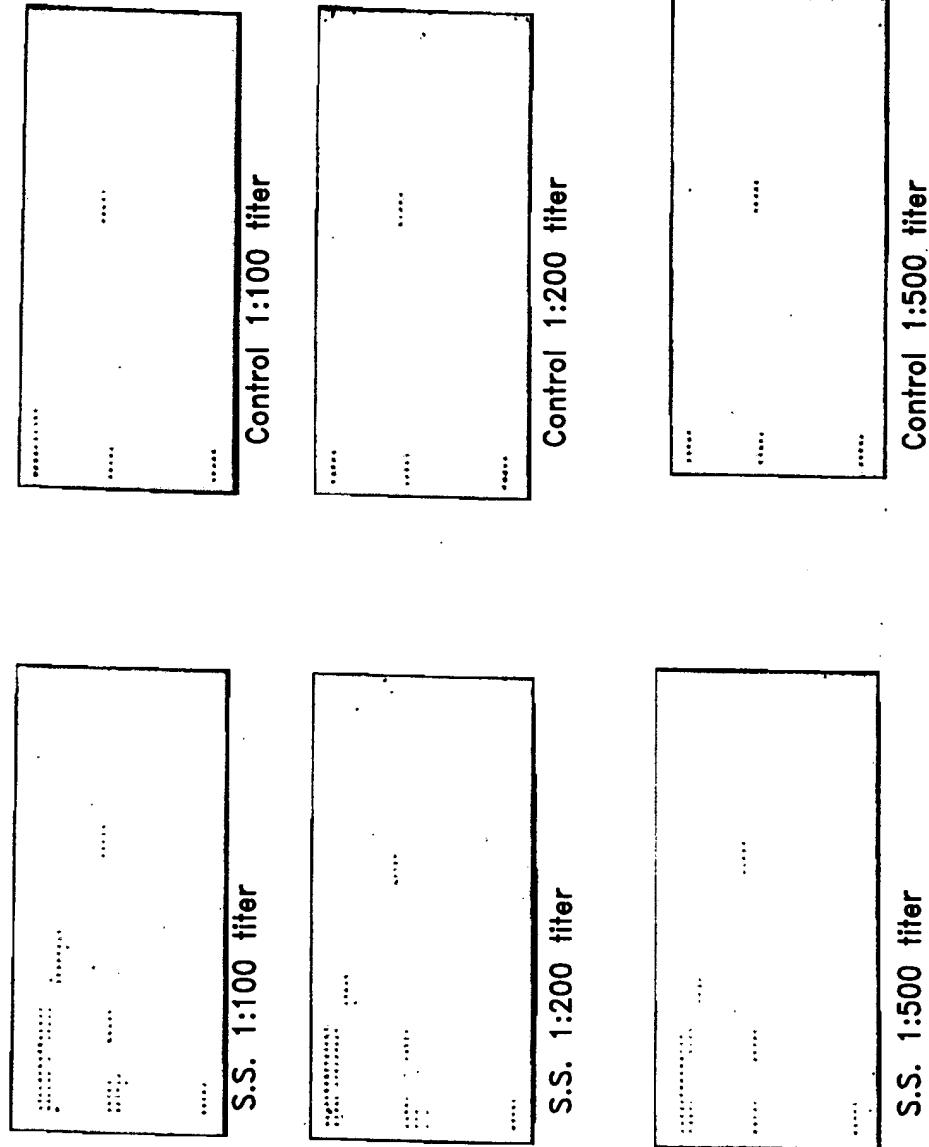


FIG. 7F

MICROARRAY BASED ANALYSIS OF RHEUMATOID ARTHRITIS MARKERS

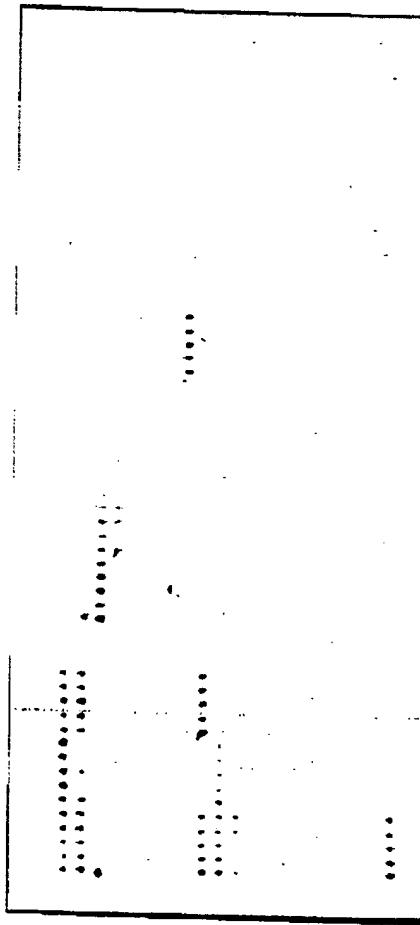
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A=secondary antibody
B=SSA (Sjogren syndrome type A
Antigen)
C=SSB (Sjogren syndrome type B
Antigen)
E=MIT (mitochondrial antigen)

S.S. 1:100 filter



Control 1:100 filter

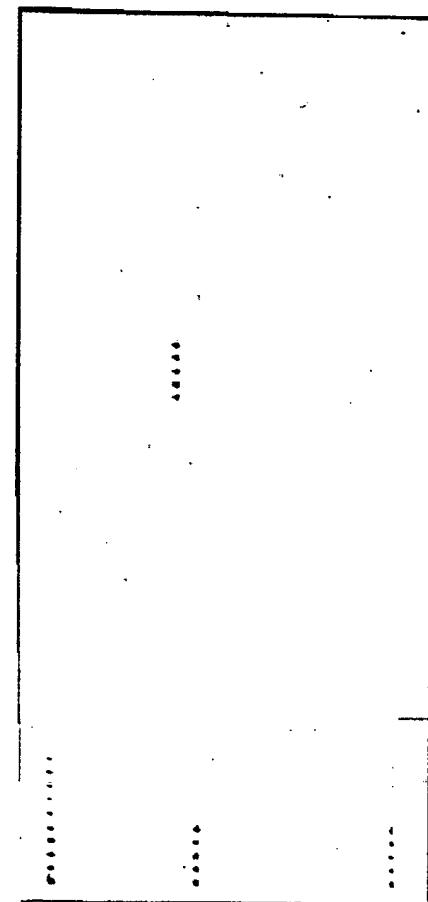


FIG. 7G